Universität Konstanz

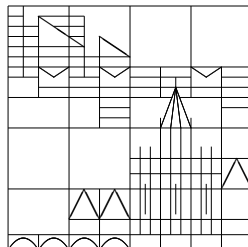**Fachbereich Mathematik und Statistik**

Prof. Dr. Robert Denk

Prof. Dr. Reinhard Racke

Prof. Dr. Oliver Schnürer
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Konstanz, den 21. Mai 2012

Im

Oberseminar Partielle Differentialgleichungen

wird am

Donnerstag, dem 24. Mai 2012

folgender Vortrag gehalten:

Patrick Kurth (Universität Konstanz):
"Well-posedness and asymptotic behaviour of certain integro-differential equations"

Zeit: 15:15 Uhr

Raum: F 426

Interessenten sind herzlich willkommen!

R. Denk, R. Racke, O. Schnürer

Abstract: We consider ordinary integro-differential equations that are characterized by non-linear memory-convolution-terms whose kernels depend on the solutions of these equations. The theory of the asymptotic behaviour of solutions under the assumption of montone kernels is not suitable for all problems in physics. We will discuss well-posedness and asymptotic behaviour of solutions under the new assumption of small kernels by using fixed point arguments. The techniques presented will be used to treat problems of certain partial integro-differential equations.

(invited by Prof. Dr. Reinhard Racke)